

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Docket Number (Optional) 98-2069	Application Number 09/432,334
Applicant(s) Guidotti, et al.	
Filing Date 11/2/99	Group Art Unit 1745

JUN 26 2002

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	TRADEMARK DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
g		3,332,753	7/25/67	Batchelor, et al.	29	191.6	10/10/63
		3,694,266	9/26/72	Bergum, et al.	136	111	12/21/70
		3,770,505	11/6/73	Bergum, et al.	136	10	2/25/72
		3,802,893	4/9/74	Kiger, et al.	106	62	8/28/72
		4,141,743	2/27/79	Grubba, et al.	106	66	10/31/77
		4,731,307	3/15/88	Guidotti	429	112	6/10/86
		4,881,951	11/21/89	Wood, et al.	51	309	5/2/88
		5,059,095	10/22/91	Kushner, et al.	416	241	10/30/89
		5,158,843	10/27/92	Batson, et al.	429	218	7/2/90
		5,332,422	7/26/94	Rao	75	252	7/6/93
g		5,426,003	6/20/95	Spengler, et al.	429	27	2/14/94

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
g		WO 97/18341	22.05.97	PCT	—	—	✓	
g		WO 99/64641	16.12.99	PCT	—	—	✓	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

g	Metals Handbook, Ninth Edition: Volume 5 Surface Cleaning, Finishing and Coating. American Society for Metals. 1982. pages 364-365 (No more)
g	"Alternatives to Composite Cathodes," ARPA Battery Workshop, Leesburg, VA, April 25, 1995. Christopher J. Crowley and Patrick J. Magari, Creane, Inc. Hanover, New Hampshire

EXAMINER	<i>g</i>	DATE CONSIDERED	<i>10-8-02</i>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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GROUP

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U.S. PATENT DOCUMENTS

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	5,426,003	6/20/95	Spengler, et al.	429	27	2/14/94
<i>je</i>	5,484,662	1/16/96	Rao	428	553	5/6/94
	5,498,269	3/12/96	Larmie	51	295	5/26/95
	5,498,484	3/12/96	Duderstadt	428	633	5/7/90
	5,530,050	6/25/96	Rangaswamy	524	430	4/6/94
	5,554,456	9/10/96	Ovshinsky, et al.	429	59	5/8/95
	5,651,801	7/29/97	Monroe, et al.	51	309	12/19/95
	5,669,941	9/23/97	Peterson	51	295	1/5/96
	5,763,106	6/9/98	Blanchard, et al.	428	570	1/19/96
	5,840,440	11/24/98	Ovshinsky, et al.	429	60	11/20/95
<i>je</i>	6,025,034	2/15/00	Strutt, et al.	427	450	2/5/98

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

je

DATE CONSIDERED

10-9-02

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				Guidotti, et al.		
				FILING 11/2/99	GROUP 1745	
U.S. PATENT DOCUMENTS						
*EXAMINER INITIAL <i>Q</i>	DOCUMENT NUMBER 6,162,530	DATE 12/19/00	NAME Xiao, et al.	CLASS 428	SUBCLASS 292.1	FILING DATE IF APPROPRIATE 11/17/97
RECEIVED JUL 01 2002 TC 1700						
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>						
EXAMINER <i>John M</i>				DATE CONSIDERED <i>10-8-02</i>		
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				Filing Date November 2, 1999	Group Art Unit 1745		
U.S. PATENT DOCUMENTS							
EXAMINER INITIALS	TRADEMARK REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		09/705,696	2/18/01	Dai, et al.			
		09/579,871	5/27/00	Wang, et al.			
		09/485,424	2/8/00	Hui, et al.			
<i>g</i>		3,890,686	6/24/75	Caubet, et al.	—	—	—
RECEIVED							
AUG 01 2002							
TC 1700							
FOREIGN PATENT DOCUMENTS							
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>g</i>		T.D. Xiao, et al. "Nanostructured Feedstock for Thermal Spray Applications" Fine, Ultrafine and Nano Powders. pp 1-11 Oct. 17-22, 1999					
<i>g</i>		B.H. Kear, et al. "Nanostructures: The Next Generation of High Performance Bulk Materials and Coatings". Naval Research Reviews. Office of naval Research. Four/1994 Vol. XLVII <i>(no month)</i>					
EXAMINER <i>g</i>				DATE CONSIDERED <i>10-8-02</i>			
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INITIALOTHER DOCUMENTS
including Author, Title, Date, Pertinent Pages, Etc.

<i>g</i>	T.D. Xiao, et al. "Thermal Spray of Nanostructured Ceramic Coatings for Improved Mechanical Properties". Procs. 12th Intl. Surface Modification conf., Columbus, OH, October 15, 1998.	<i>RECEIVED JUL 26 2002 PTO-146 USPTO TRADEMA</i>
		<i>(no month)</i>
<i>g</i>	T.D. Xiao and P.R. Strutt "Inframet's Nanostructured Materials Technologies: Thermal Spray Feedstocks, Ready-to Press Powders, and Environmental Materials," Procs. Fine, Ultrafine and Nano Powders '98, New York, NY, Nov 8-10, 1998	<i>(no month)</i>
		<i>(DECEMBER)</i>
<i>g</i>	H.E. Sliney, "A New Chromium Carbide-Based Tribological Coating for Use to 900C with Particular Reference to the Stirling engine," J. vac. Sci. Tech. A, 4 (1986), 2629-2632.	<i>(no month)</i>
		<i>(DECEMBER)</i>
<i>g</i>	M. Suzuki, "Comparison of Tribological Characteristics of Sputtered MoS ₂ Films Coated with Different Apparatus," Wear, 218 (1998), pp. 110-118	<i>(no month)</i>
		<i>(no month)</i>
<i>g</i>	Dowa Mining Co., Ltd., website, //www.dowa.co.jp/	<i>(no date)</i>
		<i>(no month)</i>
<i>g</i>	K.J. Wahl, M. Belin and I.L. Singer, "A Triboscopic Investigation of the Wear and Friction of MoS ₂ in A Reciprocation Sliding Contact," Wear, 214 (1998), pp. 212-220	<i>(no month)</i>
		<i>(no month)</i>
<i>g</i>	T. Spalvins, "A review of recent advances in solid film lubrication," J. Vac. Sci. Technol. A., 5 (1987), pp. 212-219	<i>(no month)</i>
		<i>(no month)</i>
<i>g</i>	Zhauqiang, et al. "Microstructure and tribological properties of sulphide coating produced by ion sulphuration", Wear 225-229 (1999) 799-805	<i>(no month)</i>
		<i>(no month)</i>
<i>g</i>	Ning, et al. "Wear mechanism of ion-sulphurization layer on steel under dry conditions", Wear 247 (2001) 1-8	<i>(no month)</i>
		<i>RECEIVED AUG 01 2002 TC 1700</i>

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